AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-32. (Cancelled)

33. (Previously Presented) A method of treating sewage sludge to reduce the pathogen content of said sludge, the method comprising the steps of:

(a) adding to the sludge an effective amount of a phosphoruscontaining compound, wherein the phosphorus-containing compound is a phosphonium compound, wherein the phosphonium compound is either:

- (i) a tetrakis(hydroxyorgano)phosphonium salt; or
- (ii) a compound of formula (I)

 $[R'R''(CH_2OH)_2 P^+]_n X^- (I)$

wherein:

n is the valency of X;

R' and R'', which are the same or different, are selected from an alkyl, hydroxyalkyl, alkenyl or aryl moiety and X is an anion; or

wherein:

the phosphorus-containing compound is an alkyl-substituted phosphine as shown in formula (II):

$$(CH2OH R2) P$$
 (II)

wherein:

each R, which are the same or different, is selected from an alkyl, hydroxyalkyl, alkenyl or aryl moiety; and

(b)keeping the phosphorus-containing compound in contact with the sludge for sufficient time to reduce the amount of pathogens present in the sludge by an amount equivalent to a logarithmic reduction of 2 or more.

- 34. (Previously Presented) The method as claimed in claim 33, wherein the logarithmic reduction of 2 or more is achieved over a 24-hour period.
- 35. (Previously Presented) The method as claimed in claim 33, wherein the phosphorus-containing compound is kept in contact with the sludge for sufficient time to reduce the amount of pathogens present in the sludge by a logarithmic reduction of 3 or more.
- 36. (Previously Presented) The method as claimed in claim 35, wherein the phosphorus-containing compound is kept in contact with the sludge for sufficient time to reduce the amount of pathogens present in the sludge by a logarithmic reduction of 4 or more.
- 37. (Previously Presented) The method as claimed in claim 33, wherein the pathogens are bacteria.
- 38. (Previously Presented) The method as claimed in claim 33, wherein R' and R" are between 1 and 20 carbon atoms in length.
- 39. (Previously Presented) The method as claimed in claim 33, wherein X is selected from the group consisting of chloride, sulphate, phosphate, acetate, oxalate and bromide.
- 40. (Previously Presented) The method as claimed in claim 33, wherein the phosphonium compound is tetrakis(hydroxymethyl) phosphonium sulphate.
- 41. (Previously Presented) The method as claimed in claim 33, wherein the phosphonium compound is selected from the group consisting of tetrakis(hydroxymethyl) phosphonium chloride, tetrakis(hydroxymethyl)phosphonium bromide, tetrakis(hydroxymethyl)phosphonium phosphonium oxalate.

- 42. (Previously Presented) The method as claimed in claim 33, wherein the amount of phosphorus-containing compound to be added to the sludge in step (a) is up to 10000mg/l.
- 43. (Previously Presented) The method as claimed in claim 42, wherein the amount of phosphorus-containing compound to be added to the sludge is 100-2500mg/l.
- 44. (Previously Presented) The method as claimed in claim 33, wherein the amount of phosphorus-containing compound to be added to the sludge is expressed relative to dry solids weight and the amount to be added is up to about 30% by weight of dry solids.
- 45. (Previously Presented) The method as claimed in claim 44, wherein the amount of phosphorus-containing compound to be added is from 0.2 to 5% by weight of dry solids.
- 46. (Previously Presented) The method as claimed in claim 33, wherein step (b) is carried out over a period of from 1 second to 14 days.
- 47. (Previously Presented) The method as claimed in claim 33, wherein the pathogens present in the sludge are selected from the group consisting of bacteria, viruses, protozoans and helminths.
- 48. (Currently Amended) The method as claimed in claim 47, wherein the bacteria are selected from the group consisting of *Escherichia coli, Salmonella spp., Shigella spp., Vibrio cholerae, Bacillus cereus, Listeria monocytogenes, Campylobacter spp.* and *Yersinia pesti*[[,]].

- 49. (Previously Presented) The method as claimed in claim 47, wherein the viruses are selected from the group consisting of rotaviruses, calciviruses, group F adenoviruses and astroviruses.
- 50. (Previously Presented) The method as claimed in claim 47, wherein the protozoans are selected from the group consisting of *Entamoeba spp.*, *Giardia spp.*, *Balantidium coli* and *Cryptosporidium spp.*
- 51. (Previously Presented) The method as claimed in claim 47, wherein the helminths are selected from the group consisting of *Ascaris lumbricoides* (roundworm), *Trichuris trichiura* (whipworm), *Ancylostoma duodenale* (hookworm), *Strongyloides stercoralis* (threadworm), *Schistosoma spp.*, *Taenia saginata* (beef tapeworm), *Taenia solum* (pork tapeworm) and their eggs.
- 52. (Previously Presented) The method as claimed in claim 33, wherein the sludge has undergone anaerobic digestion prior to step (a).
- 53. (Previously Presented) The method as claimed in claim 42, wherein the amount of phosphorus-containing compound to be added to the sludge is 200-1000mg/l.
- 54. (Previously Presented) The method as claimed in claim 33, wherein the amount of phosphorus-containing compound to be added to the sludge is expressed relative to dry solids weight and the amount to be added is up to about from 0.1 to 10% by weight of dry solids.
- 55. (Previously Presented) The method as claimed in claim 54, wherein the amount of phosphorus-containing compound to be added is from 0.4 to 2% by weight of dry solids.
- 56. (Previously Presented) The method as claimed in claim 33, wherein step (b) is carried out over a period of from 15 seconds to 24 hours.